

# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

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No. 11] NEW DELHI, SATURDAY, MARCH 14, 1987 (PHALGUNA 23, 1908)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
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Calcutta, the 14th March 1987

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214, Acharya Jagadish Bose Road,  
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## CORRIGENDUM

In the Gazette of India Part III, Section 2 dated the 31st January, 1987 under the heading Patents sealed *delete* 156606 under 156530 and 156843 under 156819 and *include* 155843 and 156006 under 155041.

APPLICATION FOR PATENTS FILED AT  
THE HEAD OFFICE  
214, ACHARYA JAGADISH BOSE ROAD  
CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

The 5th February 1987

- 106/Cal/87. Fletcher Sutcliffe Wild Limited. Variable speed belt conveyor drive system. (Convention dated 5th February, 1986) U.K.

The 6th February 1987

- 107/Cal/87. Hoechst Aktiengesellschaft. Water-soluble triphendioxazine compounds and sulfonyl-containing precursors thereof, processes for the preparation thereof and use of the triphendioxazines as dyes.

- 108/Cal/87. Vallourec. Composite article having a tubular sheath containing a compacted material, for the treatment of liquid metals, and process for the production of said article.

The 9th February 1987

- 109/Cal/87. ICI Americas INC. A method of preparing 2-hydroxy-5-methyl-pyridines. [Divisional dated 9th September, 1983].

- 110/Cal/87. Consilium Materials Handling Marine AB. Apparatus for unloading bulk material.

- 111/Cal/87. Consilium Materials Handling Marine AB. A method for controlling an unloader for unloading bulk material from a ship, and an apparatus for carrying said method into effect.

- 112/Cal/87. Laboratori Guidotti Spa. Esters of n-alkyl-nortropines and their quarternary derivatives having anti-bronchospastic activity, process for their preparation and pharmaceutical compositions containing them.

The 10th February 1987

- 113/Cal/87. Circuitgraph. S. L. Base plate for the production of electronic circuits.

- 114/Cal/87. E. I. Du Pont De Nemours And Company. Selective chlorination of iron values in titaniferous ores.

- 115/Cal/87. E. I. Du Pont De Nemours And Company. Novel polymer barrier blends.

- 116/Cal/87. Takeda Chemical Industries Ltd. Process for producing cephalosporin ester derivatives. [Divisional dated 29th May, 1984].

- 117/Cal/87. Takeda Chemical Industries Ltd. Process for producing cephalosporin ester derivatives. [Divisional dated 29th May, 1984].

The 11th February 1987

- 118/Cal/87. 2 Moskovsky Gosudarstvenny Meditsinsky Institut Imeni N. I. Pirogova. Intravenous filter apparatus and method for preoperative preparation thereof.

- 119/Cal/87. 1. Nadir Mir-Ibragim Ogly Seidov,  
2. Faig Omar Ogly Guseinov,  
3. Tofiq Niyaz Ogly Allakhverdiev,  
4. Valentina Yakovlevna Dubova,  
5. Valentina Fedotovna Mamedova,

6. Islam Isabala Ogly Mamedov,  
7. Alexandr Matveevich Golovachev,  
8. Ulchar Ashrafovich Mamedov,  
9. Efim Moiseevich Sire,  
10. Ljubov Petrovna Bataeva,  
11. Anatoly efremovich Tokar,  
12. Igor Petrovich Bataev,  
13. Farkhad Akhad Ogly Aliev,  
14. Kasum Gasan Ogly Kasumov.  
Method for production of butyl rubber.

- 120/Cal/87. 1. Nadir Mir-Ibragim Ogly Seidov,  
2. Faig Omar Ogly Guseinov,  
3. Tofiq Niyaz Ogly Allakhverdiev,  
4. Farkhad Akhad Ogly Aliev,  
5. Valentina Fedotovna Mamedova,  
6. Kasum Gasan Ogly Kasumov,  
7. Alexei Pavlovich Vorozheikin.

A method for preparing a catalyst for oligomerization and polymerization of olefines and alkylation of aromatic hydrocarbons.

- 121/Cal/87. Franz Welz Internationale Transporte GmbH. A process and apparatus for the adjustment or maintenance of a refrigerated atmosphere.

APPLICATION FOR PATENTS FILED AT  
THE PATENT OFFICE BRANCH  
MUNICIPAL MARKET BUILDING, THIRD FLOOR  
KAROL BAGH, NEW DELHI-5

The 2nd January 1987

- 1/Del/87. Ian Vernon Hodgson. "Improved combustion apparatus".

- 2/Del/87. PPG Industries, Inc. "Method and apparatus for melting and refining glass material".

- 3/Del/87. Union Tractor Workshop. "A thresher".

- 4/Del/87. Sir Padampat Research Centre. "A process for recovery of dimethyl terephthalate".

- 5/Del/87. Sir Padampat Research Centre. "A process for recovery of dimethyl terephthalate".

The 5th January 1987

- 6/Del/87. Morton Thiokol, Inc. "Mixture of magnesium oxide and a zirconium compound as a separating coating".

- 7/Del/87. Plaggio & C.S.p.A. "Magnet-flywheel ignition unit for internal combustion engines".

The 6th January 1987

- 8/Del/87. National Council for Cement and Building Materials. "An on-line coal quality modulation system".

- 9/Del/87. Rollatainers Limited. "A bag filler and sealing machine".

- 10/Del/87. Rollatainers Limited. "A bag packaging of material therein".

- 11/Del/87. Dr. Devendra Kumar Kaushik and Others. "Doubly oscillating quartz crystal monitor (DCM) and growth rate meter".

- 12/Del/87. Dr. Devendra Kumar Kaushik & Others. "Simple and inexpensive single oscillation thin film thickness monitor and growth rate meter".

- 13/Del/87. Bectra S. A. Bureau D' Etude Et De co-ordination De Travaux D' Assainissement. "Device for purifying water".

- 14/Del/87. Interlego AG. "Toy building block for construction set".

- 15/Del/87. G. D. Societa Per Azioni. "Device for feeding strip paper on a dual-rod cigarette manufacturing machine".

16/Del/87. G. D. Societa Per Azioni, "Cigarette manufacturing machine with an auxiliary tobacco feed unit".

The 7th January 1987

17/Del/87. AB Cerbo, "Mould for injection moulding". (Convention date 24th January, 1986, U. K.).

The 8th January 1987

18/Del/87. Union Carbide Corporation, "Integrated process and apparatus for the primary and secondary catalytic steam reforming of hydrocarbons".

The 9th January 1987

19/Del/87. Bayer Antwarpan N. V., "Process for working up tars containing 2-Mercaptobenzothiazole".

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, IIIRD FLOOR, SUNMILL COMPOUND, LOWER PAREL (WEST), BOMBAY-13

1	2	3
2-1-1987		
1/BOM/87	EIMCO Elecon (India) Limited.	Crawler track mounted auger/drill machine for use in mining industry.
2/BOM/87	The Associated Cement Companies Limited.	A non-explosive disintegrating compound for disintegrating rocks and other structures in quarrying, mining excavation and method of manufacturing such compounds.
3/BOM/87	V. R. Gupta	Fused electric plug of plastic injection moulded body.
5-1-1987		
4/BOM/87	Mrs. N. R. Gaikar	Improvement in or relating to Tape Lock for venetian blind.
6-1-1987		
5/BOM/87	Hindustan Ciba Geigy Limited	A process for the preparation of novel benzazole derivatives and their salts.
6/BOM/87	Rank Taylor Hobson Limited (con. 6-1-86 U. K., 2-2-86 U.K.)	Metrological apparatus and method using polarisation modulation.
9-1-1987		
7/BOM/1987	Hindustan Lever Limited (9-1-86 Great Britain)	Shampoo.
13-1-1987		
8/BOM/87	Hoechst India Limited	A process for the preparation of novel anthracycline derivatives from crude anthracycline complex.
15-1-1987		
9/BOM/87	P. K. Kulkarni V. P. Kulkarni	Improvements in or relating to goggle or attachment for spectacles for a person to reduce glare on eyes at night caused by headlights of vehicles or road.
16-1-1987		
10/BOM/87	A. N. Namjoshi C. G. Patel. M. B. Patel. S. G. Karamdikar. (M/s. Navayug Industries)	Improvement in reeled and reel-less hot dyeing machines by introducing special combination of 1 high speed jet-over flow jet system 2. high speed jet over flow jet-pushing jet system.
11/BOM/87	Vipin Champsey Shah	A modular Tooth Brush.
12/BOM/87	Peico Electronics & Electricals Ltd.	An Improved loudspeaker.
19-1-1987		
13/BOM/87	P. R. Khadilkar.	Electric Alternator with permanent magnets.
14/BOM/87	P. B. Vishnu	A Pilfer/Tamper proof sealing means for container closure and the like.
20-1-1987		
15/BOM/87	Ishihara Sangyo Kaisha Ltd.	Substituted pyridinesulfonamide compounds, herbicidal composition containing them, and method of preparing these compounds.
16/BOM/87	Primatex Machinery Private Limited.	A clipbody for a stenter.
17/BOM/87	Hindustan Lever Limited	Process for hydrogenation of unsaturated compounds using nickel boride-polymer in- oil catalyst.

APPLICATION FOR PATENTS FILING AT FOR  
PATENT OFFICE BRANCH

61, WALLAJAH ROAD, MADRAS-600 002

The 19th January 1987

- 27/Mas/87. K. Seshadri, Compensating compound piston to be used in spark ignition internal combustion engines.
- 28/Mas/87. B. N. Nagabhushan, Boiler-cum-geyser.
- 29/Mas/87. The Plessey Company PLC a British Company. Contact spill. (January 30th, 1986, U.K.).
- 30/Mas/87. Shell Internationale Research Maatschappij, B.V., Contacting gas and liquid. (January 21st, 1986, Great Britain).
- 31/Mas/87. Central Machine Tool Institute, Balance cut boring bar.

The 20th January 1987

- 32/Mas/87. CIBA-GEIGY AG, Amphoteric surfactant solution for cleaning or preserving soft contact lenses.
- 33/Mas/87. F. Hoffmann-LA Roche & Co., Benzazecine derivatives.
- 34/Mas/87. ATOCHEM, "Process for making a vinyl chloride copolymer and a vinyl chloride copolymer made thereby".
- 35/Mas/87. Elkem Metals Company, Cast or ductile iron inoculant.
- 36/Mas/87. Dow Mac Concrete Limited, Rail crossing panel. (January 20th, 1986, Great Britain).
- 37/Mas/87. Sponge Iron India Limited, An improved method and apparatus for producing sponge iron.

The 21st January 1987

- 38/Mas/87. V. Balagurusamy, Water supply pump.
- 39/Mas/87. Vinodkumar-C, Solid state oscilloscope.
- 40/Mas/87. Hoechst Aktiengesellschaft, A corporation organized under the laws, "Process for making crude phosphoric acid".
- 41/Mas/87. Hoechst Aktiengesellschaft, Sterilizable fluidized bed fermenter.
- 42/Mas/87. Wacław Szybalski, "Universal Restriction Endonuclease".
- 43/Mas/87. Laboratoores Delagrange, New dihydrobenzofuran-and chroman-carboxamide derivatives, Processes for the preparation thereof and use thereof as neuroleptics.

The 22nd January 1987

- 44/Mas/87. Dynamit Nobel Aktiengesellschaft of Postfach 1261, Detonator with rapidly operating ignition element.
- 45/Mas/87. Corning Glass Works, Conveyor deposition system.
- 46/Mas/87. Union Carbide Agricultural Products Company, INC. use of heterocyclic nitrogenconati containing compounds for reducing moisture loss from plants and increasing crop yield.

The 23rd January 1987

47/Mas/87. Metal Box P.L.C., Apparatus for detecting micro-organisms. February 6th, 1986, U.K.).

48/Mas/87. Eutectic Corporation, Gas-constricted arc nozzle. 159033.

## ALTERATION OF DATE

(587/Cal/83)

Ante dated to 29th April, 1980.

159042.

(194/Del/83)

Ante dated to 25th March, 1983.

159043

(195/Del/83)

Ante dated to 25th March, 1983.

## COMPLETE SPECIFICATION ACCEPTED

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CLASS : 98-I.

159030

Int. Cl. : F 24 j 3/02.

IMPROVED METHOD OF FORMING A FLOATING BARRIER OR BLANKET OF COVERITES FOR SOLAR HEATING OF WATER AND A BARRIER THEREFOR.

Applicant & Inventor : JENS OLE SORESENSEN, OF P. O. BOX 2274, RANCHO SANTA FE, CALIFORNIA 92067, UNITED STATES OF AMERICA.

Application No. 535/Cal/83 filed May 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 23 Claims

A method forming a floating barrier or blanket of coverites for solar heating a body of water and reducing heat absorbing evaporation of the water to the air comprising the steps of applying to the surface of the water a plurality of coverites which are passable by at least some solar radiation, and forming therewith a floating barrier or blanket of coverites to permit heating of the water by the solar radiation and to conserve heat in the water by

reducing loss of heat by evaporation of water each coverite comprising a flexible wall which conforms to the shape of the flexible wall of adjacent coverites.

Compl. Specn. 14 pages.

Drgs. 2 sheets.

CLASS : 85-F & L.

159031

Int. Cl. : F 23 g 5/00, F 23 h 11/12.

A STEPPED GRATE FOR AN INCINERATOR PLANT.

Applicant : VLUND MILJTEKNIK A/S, OF ABILDA-GER 11, 2600 GLOSTRUP, DENMARK.

Inventor : I. GABRIEL DA SILVA PINTO.

Application No. 548/Cal/83 filed May 4, 1983.

Convention dated 13th May, 1982 (82 13940) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims

A stepped grate suitable for an incinerator plant, which grate comprises grate blocks placed adjacent in rows, the blocks placed in succession in the travelling direction of refuse and garbage resting on parallel placed grate beams, where every second row of grate blocks are adapted to make reciprocating movement, whereas the intermediary rows of grate blocks are stationary, the movable rows and the stationary rows of grate blocks being placed in staggered position in the intended travelling direction of the refuse and garbage at a distance corresponding to half a grate block length, the one type of rows being terminated with half grate blocks.

Compl. Specn. 10 pages.

Drgs. 5 sheets

CLASS : 128-G, H & K.

Int. Cl. : A 61 b 1/30 & 1/32.

IMPROVEMENTS IN SURGICAL INSTRUMENTS.

Applicant & Inventor : SAMUEL MUSA GEORGE, OF 26 INCE ROAD, BURWOOD PARK, WALTON ON THAMES, SURREY, UNITED KINGDOM.

Application No. 570/Cal/83 filed May 6, 1983.

Convention dated 6th May, 1982 (82 13092) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A surgical instrument, such as a speculum or retractor, which comprises two blades pivotally inter-connected at their proximal ends from each of which ends a handle projects downwardly, the arrangement being such that in a first condition the instrument may be used as a double-bladed speculum and in a second condition, with one of the blades approximated to the handle of the other blade, as a single-bladed speculum.

Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 32-F<sub>1</sub> & 2 (a) & 55-D<sub>2</sub>.

159033

Int. Cl. : A 01 n 9/00;

C 07 c 43/00 & 79/00.

A PROCESS FOR THE PREPARATION OF A DIPHENYL ETHER COMPOUND.

Applicant : MITSUI TOATSU CHEMICALS, INC., OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : 1. TAKEO YOSHIMOTO, 2. AKIRA HOSONO, 3. JOH MIKI, 4. KENGO ODA, 5. MASAOKI URA, 6. NAOKI SATO, 7. TERUHIKO TOYAMA, 8. HAJIME TACHIBANA, 9. YUJI ENOMOTO, 10. YASUNOBU FUNAKOSHI, 11. TAKASHI FUJITA, 12. YOSHIKATA HOJO.

Application No. 587/Cal/83 filed May 10, 1983.

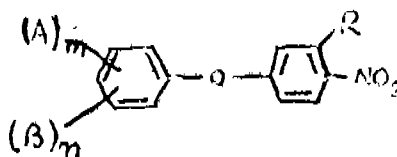
Convention dated 5th November, 1979 (79 38270) U.K.

Division of Application No. 497/Cal/80 dated 29th April, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

A process for the preparation of a diphenyl ether compound having the general formula I shown in the accompanying drawings,



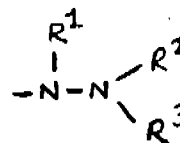
I

wherein

(1) A and B each stand for a hydrogen atom, a methyl group or a trihalomethyl group;

(2) m and n each stand for an integer of 0—3, and m + n = 0—3; and

(3) R stands for a group of formula II shown in the drawings,



II

wherein

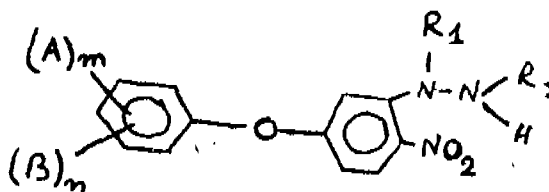
(a) R<sub>1</sub> represents a hydrogen atom, a C<sub>1</sub>—4 alkyl group,

(b) R<sub>2</sub> represents a hydrogen atom, a C<sub>1</sub>—4 alkyl group,

(c) R<sub>3</sub> represents O



(d) R<sub>3</sub> represents a C<sub>1</sub>—7 alkyl group, a C<sub>1</sub>—3 alkyl group, a phenyl group, a halogenated phenyl group, a benzyl group, a halogenated C<sub>1</sub>—C<sub>2</sub> alkyl group, 2, 4-dichlorophenoxy-methyl group, a methoxymethyl group, a carboxy-substituted C<sub>1</sub>—3 alkyl group, a C<sub>1</sub>—alkoxy carbonyl-substituted C<sub>1</sub>—3 alkyl group, a carboxyvinyl group, a methoxycarbonyl-vinyl group, which comprises reacting diphenyl ether compounds of the general formula I shown in the drawings.



E

wherein A, B, m, n, R<sub>1</sub> and R<sub>2</sub> are as defined above with acid anhydride of the general formula (R<sub>2</sub>CO)<sub>2</sub>O

wherein R<sub>2</sub> is as defined above in the presence of acetic acid, toluene or an excess of acid anhydride of the general formula (R<sub>2</sub>CO)<sub>2</sub>O as a solvent at temperature 40–90°C for 3–6 hours.

Compl. Specn. 32 pages.

Drgs. 3 sheets.

CLASS : 40-B; 56-B.

159034

Int. Cl. : B 01 j 11/00.

#### HYDROCRACKING CATALYST FOR HYDROCRACKING PROCESS.

Applicant : MOBIL OIL CORPORATION, OF 150 EAST 42ND STREET, NEW YORK, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. RENE BERNARD LAPIERRE, 2. RANDALL DAVID PARTRIDGE.

Application No. 620/Cal/83 filed May 18, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A hydrocracking catalyst which comprises, as hydro-generating component a metal of Groups VA, VIA and VIIA of the Periodic Table and, as an acidic component, a large pore zeolite having a silica : alumina ratio of at least 50 : 1, said hydrogenation component comprising from 0.01 to 10% by weight of the total catalyst.

Compl. specn. 27 pages.

Drg. 1 sheet.

CLASS : 68-B

159035

Int. Cl. : H 02 g 13/00.

#### A LIGHTNING PROTECTOR ASSEMBLY.

Applicant : ENERGIE FROIDE INTERNATIONALE S.A., OF 36 AVENUE KRIEG, 1208 GENEVE, SWITZERLAND.

Inventor : 1. CESARE GIULIO INVERNIZZI.

Application No. 702/Cal/83 filed June 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A lightning protector assembly, characterized in that it comprises at least one electrically conductive device (6) positioned in the vicinity of the lightning rod point (1, 2) and electrically isolated from both this point (1, 2) and the conductor (3) connecting the rod to the ground, said device (6) comprising a first component (7) terminated by at least one spike (8, 9, 10) for facilitating the adjustment of the device (6) to the electric potential of the atmosphere, and a second component (11) extending as an electrode (12) positioned at a sufficiently short distance from the lightning rod (1), so that, at least in the event of stormy weather, an electric discharge takes place between the electrode (12) and the lightning rod (1) as a result of the voltage developed across the gap between said conductive device (6) and the rod (1), such a discharge being sufficient by itself to improve the efficiency of the lightning protector.

Compl. specn. 9 pages.

Drg. 1 sheet.

CLASS : 105-C

159036

Int. Cl. : G 01 k 7/00.

DATA ACQUISITION AND BRIDGE INTERFACE SYSTEMS FOR MONITORING TEMPERATURE WITH A RESISTANCE THERMO-DETECTOR (RTD) DEVICE.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventor : 1. YOAV MOTTIS SMITH.

Application No. 704/Cal/83 filed June 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A data acquisition and bridge interface system for monitoring temperature with a resistance thermo-detector (RTD) device, which produces non-linear outputs, the system comprising :

a data acquisition system including a micro-processor having a memory means;

an RTD bridge including said RTD device and connected between a voltage reference and ground, said RTD device producing a signal X;

said data acquisition system being responsive to a measured input signal X which is representative of a temperature T<sub>1</sub> with a resistance R<sub>1</sub> in said RTD device;

said microprocessor having means to linearize RTD temperature values and for computing the linearized value Y of X according to the formula :

$$Y = B_0 + B_1 X + B_2 X^2 + \sum_{n=3}^{\infty} B_n X^n$$

where B<sub>0</sub>, B<sub>1</sub>, B<sub>2</sub> and B<sub>n</sub> are predetermined quantities stored in said memory means and X<sub>i</sub> = instantaneous measured signal from the RTD.

Compl. specn. 28 pages.

Drg. 3 sheets.

CLASS : 69-I

159037

Int. Cl. : H 01 h 13/20.

#### DRIVING MECHANISM FOR A THREE-POSITION ELECTRICAL SWITCH.

Applicant : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

Inventor : 1. RAINER POTH.

Application No. 706/Cal/83 filed June 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 4 Claims

A driving mechanism for a three-position electrical switch comprising :

a jump-drive sub-assembly having a switching shaft which is rotatable between ON, OFF and EARTH switching positions;

a pivotable actuator operable to rotate the switching shaft between its switching positions;

a spring arrangement coupled with the actuator and operable to store spring energy upon rotation of the actuator in either direction from a mean position;

a detent arrangement coupled with the switching shaft and with the spring arrangement;

a circumferentially spaced arrangement of latches disposed around the switching shaft and engageable with the detent arrangement in order to hold the switching shaft in any one of its switching positions;

a release arrangement coupled with the actuator and operable, upon rotation of the actuator from the means position through a predetermined angle, to disengage the detent arrangement from the latch arrangement and thereby allow the stored spring energy to

act upon the switching shaft to rotate the latter rapidly to the ON position or to the EARTH position depending upon the direction of rotation of the actuator;

and a storage drive sub-assembly coupled with the switching shaft and having a circuit breaker spring which is operable to release a stored spring force when a fuse of a flushing arrangement is "blown" or by actuation of an operating current circuit breaker;

in which the switching shaft is operable in use automatically via the storage drive sub-assembly when a fuse is blown or when an operating current circuit breaker is actuated, and the switching shaft is operable manually via the jump drive sub-assembly.

Compl. specn. 21 pages.

Drg. 5 sheets

CLASS : 104-P

159038

Int. Cl. : C 08 d 13/28.

PROCESS FOR THE PREPARATION OF NOVEL ACCELERATORS USEFUL FOR THE VULCANIZATION OF RUBBER ARTICLES.

Applicant : DUNLOP INDIA LIMITED, "DUNLOP HOUSE", 57B, MIRZA GHALIB STREET, CALCUTTA-700 016, WEST BENGAL, INDIA.

Inventors : 1. SOUMEN CHAKRABORTY, 2. DHANANJOY BANDYOPADHYAY, 3. ANIRUDDHA SEN.

Application No. 712/Cal/83 filed June 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

A process for the reparation of novel organic accelerators useful rubber vulcanization, which comprises :

- (a) dissolving a polyhydroxy benzene as herein described in a solvent such as herein described;
- (b) adding a divalent metal salt of dithiocarbamate slowly to the said dissolved solution of polyhydroxy benzenes preferably in the ratio of 2 parts by weight to 5 parts by weight respectively with stirring till homogeneous melt is obtained followed by (c) adding paraffin wax to said melt to stabilize the same.

Compl. specn. 16 pages.

Drg. 2 sheets.

CLASS : 127-I

159039

Int. Cl. : F 16 b 1/02.

MOORING SYSTEM FOR MAINTAINING A BUOYANCY BODY IN POSITION IN RELATION TO ANOTHER BODY.

Applicant : SINGLE BUOY MOORINGS INC., OF 5, ROUTE DE FRIBOURG, P.O. BOX 124, CH-1723 MARLY, SWITZERLAND.

Inventor : 1. LEENDERT POLDERVAART.

Application No. 730/Cal/83 filed June 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 7 Claims

Mooring system for maintaining a buoyancy body, such as vessel, in position in relation to another body, such as a buoy, a tower, a quay, which position determining system comprises a stiff arm, connected to one of said bodies for instance to the buoy, of which arm the other end is movably attached through a connection means to the other body, such as vessel, which connection means is maintained under tension by means of a weight, characterized in that said

weight is attached to the arm at a position between the ends of said arm respectively beyond the point of attachment of said connection means, whereby said point of attachment is far above the bottom of said vessel especially near the water surface.

Compl. specn 8 pages.

Drg. 4 sheets

CLASS : 40F [IV(1)] & 201D [III(4)], 206e

159040

Int. Cl. : Co2b-1/38, 3/00, & Co1b 13/12.

CIRCUITORY FOR THE PULSED OPERATION OF AT LEAST ONE HIGH-FREQUENCY OZONIZER.

Applicant : RUDOLF GESSLAUER, A GERMAN CITIZEN, OF WALDSTRASSE 6, D 4501 SCHAUENBURG, WEST GERMANY.

Inventors : GESSLAUER RUDOLF.

Application for Patent No. 162/Del/83 filed on 12th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 14 Claims

Circuitry for the pulsed operation of at least one high frequency ozoniser, comprising :

- a power supply producing a DC voltage, and a high circuit for the derivation of electrical pulses from the DC voltage, and a high voltage transformer to whose primary side the pulses produced by the circuit are delivered and whose secondary side is connected to the ozoniser, characterised in that the circuit contains a pulse width controller triggered by an oscillator, having an output which is connected to an input of said controller.

Compl. specn. 18 pages.

Drg. 2 sheets

CLASS : 77D & 77E

159041

Int. Cl. : C 11 b 3/00.

A PROCESS FOR THE PREPARATION OF IMPROVED CATIONIC FATLIQUOR FROM VEGETABLE OIL.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : KRISHNA IYER VIJAYALAKSHMI DHARMAGADI RAGHUNATHARAO VEMU VENKATAMURALIDHARA RAO & RAMANUJAM SELVA RANGAN.

Application for Patent No. 172/Del/83 filed on 17th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A process for the preparation of improved cationic fatliquors for use in the leather industry comprising reacting a vegetable fat oil such as herein described with a nitrogenous base such as herein described in the presence of a catalyst such as herein described followed by washing with saturated solution of sodium chloride and quaternisation with a mineral acid.

Complete specn. 5 pages.

CLASS : 36 B 3 [XLIV(1)]

159042

Int. Cl. : F 04 d—3/00.

## CEILING MOUNTED FANS.

Applicant(s) : THE JAY ENGINEERING WORKS LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 23, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

Inventors : TEJ BHAN GUPTA and PRADEEP HANDOO.

Application for Patent No. 194/Del/1983 filed on 25th March 1983. Divisional Application No. 195/Del/1983 filed on 25th March 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

A ceiling fan having means for mounting blade assemblies on the rotor of the fan, said means comprising a screw, a nut fitted on the threaded end of the screw, characterized in a housing in the end ring of said rotor said housing having a seat for supporting said nut and an axial passage extending downwardly from said seat so as to receive the lower end of the said screw.

Complete specn. 7 pages.

Drg. 1 sheet.

CLASS : 36 B 3 [XLIV(1)]

159043

Int. Cl. : F 04 d—3/00.

## CELLING MOUNTED FANS.

Applicants : THE JAY ENGINEERING WORKS LIMITED, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 2, KASTURBA GANDHI MARG, NEW DELHI-1102001, INDIA.

Inventors : TEJ BHAN GUPTA and PRADEEP HANDOO.

Application for Patent No. 195/Del/1983 filed on 25th March 1983. Divisional Application No. 194/Del/1983 on 25th March 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

A ceiling fan having a top cover and a bottom cover with means for mounting of the blade assembly to said top cover through a bolt and nut arrangement characterized in that said means comprise a passage or housing provided in said top cover or bottom cover for introduction of a threaded screw, a housing provided in the bottom cover or top cover for supporting a nut to be engaged by said threaded screw, the housing in said bottom cover being co-axial with the passage or housing in the top cover or bottom cover the blade assembly being fixed to the said top cover or bottom cover through said nut and bolt arrangement.

Provisional specifications 5 pages.

Complete specn 8 pages.

Drg. 2 sheets.

CLASS : 128 A &amp; G

159044

Int. Cl. : A 61 j 1/00, 3/00.

## AN OCCLUSIVE MULTI LAYERED DRESSING.

Applicant : E.R. SQUIBB & SONS, INC., A DELAWARE CORPORATION OF LAWRENCEVILLE-PRINCETON ROAD, PRINCETON, NEW JERSEY 08540, UNITED STATES OF AMERICA.

Inventors : JOHN MICHAEL PAWLCHAK & FRANK MICHAEL FREEMAN.

Application for Patent No. 198/Del/83 filed on 28th March, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 17 Claims

An occlusive multi layered dressing comprising an inner adhesive layer, an intermediate layer of semi open cell polymeric foam, and an outer moisture impervious polymeric film coated or laminated to the upper surface of said foam layer wherein said inner adhesive layer consists essentially of a homogeneous blend of from 30% to 70% by weight of one or more pressure sensitive adhesive materials elastomers such as herein described and from 10% to 65% by weight of one or more water dispersible hydrocolloids and up to 50% by weight of one or more optional water swellable cohesive strengthening agents such as herein described and/or one or more optional hydratable polymers such as herein described provided that said water dispersible hydrocolloids, water swellable cohesive strengthening agent, and hydratable polymers together are present at no more than about 70% by weight of said adhesive layer.

Compl. specn. 38 pages.

Drg. 2 sheets

CLASS : 206 B

159045

Int. Cl. : Ho 4 j 3/00.

## SYNCHRONIZATION APPARATUS IN A TELECOMMUNICATION SYSTEM OF THE TIME DIVISION MULTIPLEX TYPE.

Applicant : TELEFONAKTIEBOLAGET L M ERICSSON, OF S-126 25 STOCKHOLM, SWEDEN, A COMPANY ORGANIZED UNDER THE LAWS OF SWEDEN.

Inventors : EDVIN PERNTZ CARL GUNNAR & STURE GOSTA ROOS.

Application for Patent No. 236/Del/83 filed on 8th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 2 Claims

Synchronization apparatus in a telecommunication system of the time division multiplex type, in which information is transmitted in assigned time slots in one-way data transmission between a plurality of equal transmitter/receiver modules (A-N) connected to a common bus, for enabling transmission through the bus from transmitters (S) to receivers (R) in adjacent time slots without time difference between transmission sequences in respective time slots, characterized in that :

said bus is in a number of sections, where inputs of a first bus section (B1) are connected in a predetermined order to corresponding outputs of said transmitters (S);

there is a final bus section (B3) having outputs thereof connected to corresponding inputs of said receivers (R) in the same predetermined order as for the transmitters;

there is a length adjustable, intermediate bus section (B2) extending from a last connected said transmitter (S) to a first connected said receiver (R);

each of said transmitter/receiver modules (A-N) contains a clock signal unit (CU) having outputs thereof connected to inputs of a time slot counter (TSC), clock signal outputs of which are connected to corresponding inputs of a control memory (CM) and to corresponding inputs of a time slot memory (TM) an internal clock signal output (CS) of said time slot counter (TSC) being connected to the input of an inverter (I) to a first input of a first latch circuit (L1) and to a first input of an And-circuit (O1), said time slot counter (TSC) also having a frame synchronization pulse output (FS)



connected a second input of said And-circuit (01) and to a first input of a phase comparator (PS);

the control memory (CM) having address signal outputs connected to address inputs of said time slot memory (TM) and a data select output (DS) connected to a first input of a second latch circuit (L2), a time slot enable output (TE) of the control memory, being connected to a second input of said first latch circuit (L1) an output of which being connected to a time slot enable input (TE) of a bus transmitter (BS);

a frame synchronization output (FS) of said And-circuit (01) being connected to a corresponding input of said transmitter (BS), said transmitter (BS) also having data inputs connected to corresponding outputs of said first latch circuit (L1), the outputs of said transmitter (BS) being connected to said bus;

outputs of the bus being connected to data inputs of bus receiver (BR) data outputs of said bus receiver (BR) being connected to data inputs of said bus receiver (BR) being connected to data inputs of a said second latch circuit (L2), a frame synchronization pulse output (FS) of the bus receiver being connected to a second input of said phase comparator (PC), a control signal output (U) of said phase comparator being connected to an input of said clock signal unit (CU), the output of said inverter (I) being connected to a clock signal input of said second latch circuit (L2), data outputs of said latch circuit (L2) being connected to data inputs of said time slot memory (TM) data outputs of said time slot memory (TM) being connected to data inputs of said first latch circuit (L1).

Complete specification 10 pages.

CLASS : 122 & 167C 159046

Int. Cl. : B03c 3/00.

#### CIRCUIT FOR SUPPLYING ADDITIONAL VOLTAGE PULSES TO ELECTROSTATIC PRECIPITATORS.

Applicant : DRESSER U.K. LIMITED, A BRITISH COMPANY OF 197, KNIGHTSBRIDGE, LONDON SW7 1RJ, ENGLAND.

Inventor : JAMES BARRY KENNETH.

Application for Patent No. 248/Del/83 filed on 14th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 12 Claims

A circuit for supplying additional voltage pulses to an electrostatic precipitator superimposing on a base voltage level which is supplied independently of said additional voltage pulses said circuit comprising a storage capacitor and a chain of unidirectional conducting devices connected in series with the precipitator through a coupling capacitor, an impedance connected across the series combination of the storage capacitor and said chain, means for charging the storage capacitor to the desired pulse voltage, and control means connected to said chain of unidirectional devices for rendering conductive simultaneously the devices in said chain to connect the storage capacitor with the precipitator.

Compl. specn. 12 pages.

Drg. 4 sheets.

CLASS : 165 CA 159047

Int. Cl. : D05b 77/00.

#### IMPROVED KNOCKDOWN TYPE COVER FOR SEWING MACHINES.

Applicant : RAMESHWAR DAYAL, 131, CHHOTA BAZAR, SHAHDARA, DELHI-110032, INDIAN NATIONAL.

Application for Patent No. 251/Del/83 filed on 16th April, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

An improved knockdown type cover for sewing machines which consists of a central curved member and two end members, the central curved member is made of two parts, the upper curved part which is made of two veneers plywood and the lower part which is made of three veneers plywood, each of the two end members having a groove alongside its or having aluminium beading fixed along its edge in which the edge of the central curved member is adapted to be engaged.

Compl. specn. 6 pages.

Drg. 1 sheet

CLASS : 55F & 32C

159048

Int. Cl. : A 61k, 27/00.

#### PROCESS FOR THE ISOLATION OF HUMAN CHORIONIC GONADOTROPIN (HCG) FROM PREGNANT HUMAN URINE.

Applicants : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT ((ACT XXI OF 1860).

Inventors : RANJAN BHADRA & ASHOKE GOPAL DATTA.

Application for Patent No. 290/Del/83 filed on 9th May, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A process for the isolation of human chorionic gonadotropin (HCG) from the urine of pregnant women comprises concentrating the urine by lyophilisation, adding to the concentrated urine glycerol, acetone and sodium chloride, vigorously stirring the mixture, separating the upper layer, extracting the lower layer with chilled acetone, adding the extract to the separated upper layer, lyophilising the mixture, dissolving in phosphate buffer and dialysed.

Compl. specn. 12 pages.

CLASS : 32 F<sub>2</sub> (c)

159049

Int. Cl. : C07g—7/00.

#### A PROCESS FOR THE ISOLATION OF WHEAT GERM A3GLUTININ FROM WHEAT GERM.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIAN AN INDIAN, REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : ANJAN SEN, RANJAN BHADRA & ASHOKE G. DATTA.

Application for Patent No. 319/Del/1983 filed on 16th May, 1983.

Complete specification left on 4th August, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 8 Claims

A process for the isolation of Wheat Germ Agglutinin. Comprises defating wheat germ, drying the defated germ, extracting it with water, filtering and centrifuging the filtrate to remove suspended impurities, subjecting the resultant product to ultrafiltration, and thereafter decolourising, centrifuging and concentrating by lyophilisation.

Provisional specification 8 pages.

Complete specification 11 pages.

CLASS : 132-D

159050

Int. Cl. : B 01 f 13/00.

### ANNULAR MACHINE FOR CONTACTING SOLIDS AND GASES.

Applicant : METALLGESELLSCHAFT A.G. OF 16 FRANKFURT A.M. REUTERWEG, WEST GERMANY.

Inventor : 1. DIETRICH MUNCH.

Application No. 732/Cal/83 filed June 9, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 14 Claims

An annular machine for contacting solids and gases, wherein the gases are passed through a solids bed and a temperature difference exists between the gases and solids, comprising gas-permeable grates, which are supported by a carrying structure revolving on wheels and which are adapted to be lowered about a horizontal hinge at the discharge stations, and inside and outside walls secured to the carrying structure, characterized in that the carrying structure consists of radially extending spokes, which are inter-connected only on the inside by a ring structure, which is guided on the inside by horizontal rollers on a circular track, the carrying structure is supported on circular rails, on the inside by wheels mounted on said spokes (1) or on said ring structure, and on the outside by wheels (5a) mounted on said spokes, each of the gas-permeable grates is mounted so that it is adapted to be lowered about a horizontal hinge, between two of said adjacent spokes, the free space between said adjacent grates is covered by a cover, stakes are mounted on the outside on the said spokes and on the inside on said spokes or said ring structure, and the side walls are secured to stakes.

Compl. specn. 20 pages.

Drg. 7 sheets.

CLASS : 141-C & D

159051

Int. Cl. : C 21 d 1/00, 9/00; C 22 c 41/00; F 27 b 1/22.

### INSTALLATION FOR THE HEAT TREATMENT OF PULVERULENT MINERALS.

Applicant : FIVES-CAIL BABCOCK, OF 7 RUE MONTALIVET, 75383 PARIS CEDEX 08, FRANCE.

Inventor : 1. JEAN LEBESGUE.

Application No. 735/Cal/83 filed June 10, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

Installation for the heat treatment of pulverulent minerals, such as herein defined, comprising a framework (60), a kiln (10) where the minerals are treated in suspension in a flow of hot gases produced by the combustion of air and of a fuel, and two sets of cyclones located upstream and downstream respectively of the kiln and connected to each other and to the kiln by ducts arranged so that the kiln exhaust gases pass through all the cyclones (12, 14 and 16) of a set, in succession, while an air flow goes through all the cyclones (18, 20 and 22) of the other set before entering the kiln where it is used as combustion

air, the exhaust gases heating the minerals before they enter the kiln and the air flow cooling the treated minerals, characterized in that the kiln (10) and the two cyclones (12 and 22) located respectively immediately upstream and immediately downstream of the kiln are positioned on a lower level and supported by the said framework (60) whereas, at least some of the other cyclones (14 and 16) are positioned on a higher level and supported by a superstructure (66) fixed on the framework.

Compl. specn. 9 pages.

Drg. 4 sheets

CLASS : 127-A

159052

Int. Cl. : F 16 d 3/00.

### IMPROVED IN A SLIP SPLINE ASSEMBLY.

Applicant : DANA CORPORATION, OF 4500 DORR STREET, TOLEDO, OHIO, U.S.A.

Inventors : 1. THOMAS JAMES COOK, JR. 2. JAY WESLEY THORNBURGH.

Application No. 739/Cal/83 filed June 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

In a slip spline assembly comprising : a yoke having a yoke having a splined bore, said bore having first and second opposed open ends, the improvement comprising :

a groove in one of said yoke bore ends, a plug for closing said one of said yoke bore ends, said plug comprising a closed end, a side wall integrally connected to said closed end, said side wall having a free end, a flexible portion integrally connected to said side wall free end having a radially outwardly extending shoulder engaging said yoke bore groove for positively locking said plug in said yoke bore.

Compl. specn. 10 pages.

Drg. 1 sheet

CLASS : 128-E & K

159053

Int. Cl. : A 61 b 17/00, 17/06; A 61 f 9/00.

### APPARATUS FOR THE FRAGMENTATION AND ASPIRATION OF OCULAR TISSUES.

Applicant : GORKOVSKY GOSUDARSTVENNY MEDITSINSKY INSTITUT IMENI S.M. KIROVA, GORKY, PLOSHCHAD MININA I POZHARSKOGO, 1/10, USSR.

Inventors : 1. LEOPOLD VLADISLAVOVICH KOSOV-SKY. 2. JURY KLEMENTIEVICH KRAVCHUK. 3. ALEXANDR VASILIEVICH BOIKO. 4. ZINOVY MIKHAILOVICH SLAVINSKY. 5. GEORGIYENIEVICH STOLYARENKO. 6. IRINA LEOPOLDOVNA KOSOV-SKAYA. 7. ALEXANDR IVANOVICH SOROKIN.

Application No. 790/Cal/83 filed June 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 5 Claims

An apparatus for the fragmentation and aspiration of ocular tissues, comprising a controlled ultrasonic generator, having its one end connected to said magnetostriction converter to convert the electric ultrasonic vibrations into mechanical, and a hollow needle with an axially disposed bore having its one end connected to said magnetostriction converter to receive the mechanical vibrations causing ocular tissues to be fragmented and the severed tissue to be aspirated, while its other free end is adapted to be brought into contact with tissue, characterized in that the free end of the needle adapted to be brought into contact with the

tissue to be removed is provided with an end wall portion having a through opening with a diameter substantially less than the diameter of the axial bore of the needle, said opening and said bore being joined together.

Compl. specn. 16 pages.

Drg. 1 sheet

CLASS : 47-B

159054

Int. Cl. : C 01 b 2/00.

A METHOD FOR THE PRODUCTION OF SYNTHESIS GAS AND A REACTOR FOR CARRYING OUT SUCH METHOD.

Applicant : M.A.N. MASCHINENFABRIK AUGSBURG-NURNBERG AKTIENGESELLSCHAFT, OF BAHNHOF-STRASSE 66, 4200 OBERHAUSEN 11, WEST GERMANY.

Inventors : 1. DR.-ING. KLAUS KNOP, 2. DR.-ING. PETER HEINRICH.

Application No. 793/Cal/83 filed June 25, 1983.

Convention dated 2nd June 1983 (15324/83) Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 6 Claims

Method for the production of synthesis gas, in which the synthesis gas, produced in a reactor by gasification of carbonaceous fuel, is subjected to gas-treatment, cooled and is subjected to a high temperature conversion, a part of the gas, as recycle gas, is fed to the reactor together with combustion air, and a part of the waste heat is regenerated by the gas emerged from the reactor, wherein the waste heat of the gases after gas treatment is transferred to the recycle gas and the recycle gas is then fed to the reactor (9).

Compl. specn. 11 pages.

Drg. 2 sheets

CLASS : 155-C

159055

Int. Cl. : D 04 h 1/60.

PROCESS AND APPARATUS FOR THE FORMATION OF FIBRE FELT CONTAINING ADDITIONAL SUBSTANCES

Applicant : ISOVER SAINT-GOBAIN, OF 18 AVENUE D'ALSACE, 93400 COURTBEVOIE, FRANCE.

Inventors : 1. ALAIN DEBOUZIE, 2. DANIEL NOUVIER.

Application No. 289/Cal/83 filed July 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 15 Claims

Process for the production of a felt of fibres containing one or more additional substances such as herein described in which the felt is made up of freshly formed fibres and recycled fibres, the one and other lot of fibres being conveyed into a receiving chamber on a conveyor belt where they are deposited in an intimately mixed form, characterised in that the additional substance or substances is or are introduced together with the recycled fibres.

Compl. specn. 28 pages.

Drg. 4 sheets.

CLASS : 118-B<sub>0</sub>

159066

Int. Cl. : B 61 c 11/00.

LOCOMOTIVES AND MEANS FOR AUGMENTING THE TRACTIVE EFFORT OF LOCOMOTIVES.

Applicant : THE CITY UNIVERSITY, OF NORTHAMP-ON SQUARE, LNDN EC1V OHB, ENGLAND.

Inventor : 1. FREDERICK THOMAS BARWELL.

Application No. 834/Cal/83 filed July 5, 1983.

Convention dated 5th July, 1982 (19343/82) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 8 Claims

A device for engaging a locomotive to provide or augment its tractive effort, the device comprising reaction members adapted to adhere magnetically to a rail and means for reacting against the reaction members to propel the device, wherein the reaction members comprises a series of magnetic devices attached to an endless chain movable in a path which brings the magnetic devices into working contact with the rail and the chain being driven thereby to propel the device.

Compl. specn. 8 pages.

Drg. 3 sheets

CLASS : 130-C

159057

Int. Cl. : C 22 b 33/00.

PROCESS FOR PRODUCING HIGH-PURITY METALLIC ARSENIC.

Applicant : INSTITUT METALLURGII IMENI 50-LETIA SSSR AKADEMII NAUK GRUZINSKOI SSR, TBILISI, ULITSA PAVLOVA, 15, USSR.

Inventors : 1. VASILY GEORGIEVICH RTSKHILADZE, 2. ALEXANDR GEORGIEVICH CHAPIDZE, 3. MERAB VIKTORIVICH KERESLIDZE, 4. NIKOLAI SHIOEVICH TSKHAKAYA, 5. NODAR LEONTIEVICH KHUT-SISHVILI.

Application No. 846/Cal/83 filed July 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 3 Claims

A process for producing a high-purity metallic arsenic in a vertical tubular furnace comprising melting a commercial-purity metallic arsenic in a mixture with lead and bismuth under a layer of a melt of boron anhydride at the ratio of the layer height of the melt of boron anhydride to the layer height of the melt of arsenic, lead and bismuth equal to 0.1, said metallic arsenic, lead and bismuth being used in the following proportions, per cent by weight : arsenic—25–40, lead—30–65, bismuth—5–40; then a high-purity arsenic is distilled from the resulting melt at a temperature within the range of from 600 to 700°C, along with condensation of arsenic vapours in the metallic form; said melting, distillation and condensation being carried out in a vacuum of 10<sup>-4</sup> to 10<sup>-5</sup> mm Hg. in a closed container chemically resistant to arsenic.

Compl. specn. 13 pages.

Drg. Nil.

CLASS : 40-F & H

159058

Int. Cl. : B 01 j 1/00.

AN IMPROVED METHOD FOR THE REMOVAL OF SULFUR OXIDE FROM INDUSTRIAL WASTE GASES.

Applicant : ENVIRONMENTAL ELEMENTS CORPORATION, 3700 KOPPERS STREET, BALTIMORE MAGYLAND 21227, UNITED STATES OF AMERICA.

Application No. 849/Cal/83 filed July 8, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

An improved method for the removal of sulfur oxide from industrial waste gases with solid sorbent and regenerating the solid sorbent for reuse comprising:

- (a) contacting said gas with a solid sorbent selected from activated sodium carbonate, sodium bicarbonate, trona or mixtures thereof to form solids of unreacted sorbent, sodium sulfite, sulfate and mixtures thereof and a waste gas which is freed from sulfur oxide, said gas being allowed to vent from the process;
- (b) dissolving the solids formed in step (a) in an alkaline liquor;
- (c) carbonating the liquor formed in step (b) and cooling to a temperature sufficient to form sodium bicarbonate and trona crystals;
- (d) separating the sodium bicarbonate or trona crystals from the liquor of step (c) and recycling said crystals to step (a); and
- (e) removing the carbon dioxide from the cooled liquor of step (c), adding a precipitant selected from alkaline earth metal hydroxides; oxides and mixtures thereof, separating alkaline earth metal sulfates, sulfites and mixtures thereof and recycling the resultant alkaline liquor to step (b), characterized in that the alkaline liquor of step (b) contains borate ions and in that the sodium carbonate or trona crystals after being separated from step (c) are heated to a temperature between 70°C and 200°C sufficient to form activated sodium carbonate.

Compl. specn. 14 pages.

Drg. 1 sheet.

CLASS : 130-C  
Int. Cl. : C 22 b 33/00.

159059

## PROCESS FOR PRODUCING METALLIC ARSENIC.

Applicant : INSTITUT METALLURGI IMENI 50-LETA SSSR AKADEMII NAUK GRUZINSKOI SSR, TBILISI, ULITSA PAVLOVA, 15, USSR.

Inventors : 1. VASILY GEORGIEVICH RTSKHILADZE, 2. SHOTA DMITRIEVICH TATISHVILI, 3. ANZOR TITI-KOEVICH AVALIANI.

Application No. 840/Cal/83 filed July 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

A process for producing metallic arsenic from a sulphide ore comprising reduction of arsenic from the sulphide ore by means of reducing agent such as iron or manganese at a weight ratio of arsenic sulphides contained in the ore to said reducing agent of (1-2.5) : 1 respectively at a temperature within the range of from 300 to 400°C in the atmosphere of air, separating metallic arsenic from the obtained intermediate product of thermally treated mixture containing a mechanical mixture of the reduced metallic arsenic and iron sulphide by heating the said intermediate product in vacuum or in air.

Compl. specn. 11 pages.

Drg. Nil.

CLASS : 50 B

159060

Int. Cl. : F 28 c—1/00.  
AN AIR COOLER.

Applicant : RAM NARAIN KHER, AN INDIAN NATIONAL OF E-45 NEW DELHI SOUTH EXTENSION, PART I, NEW DELHI-110 049, INDIA.

Inventor : KHER RAM NARAIN.

Application for Patent No. 587/Del/1982 filed on 31st July 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 7 Claims

An air cooler comprising a housing or cabinet having openings on at least three walls thereof, a blower disposed within the said housing, a pump for pumping water from the base of said housing to a water distribution means disposed within said housing characterized in a support means for supporting two pads of a water absorbent material such as wood wool, coir or khas provided for each of the said walls having openings, the two pads for each wall being spaced apart, and a water transfer member is provided for each of the said pads, the water transfer member having a short arm in contact with the said water distribution means and longer arm in contact with the pad.

Compl. specn. 13 pages.

Drg. 1 sheet

CLASS : 131 B 3&amp;4

159061

Int. Cl. : E 21 b 3/06 and E 21c 1/00.

## DRILLING HEAD FOR A DRILLING DEVICE.

Applicant : CLEDISC INTERNATIONAL BV, A COMPANY INCORPORATED IN HOLLAND WHICH HAS ITS REGISTERED OFFICE AT C/O WISSELINK & CO BV "VYVERDAM" DALSTEINDREEF 71-75 AMSTERDAM-DIEMEN, HOLLAND.

Inventor : OSCAR WILLIAM KAALSTAD.

Application for Patent No. 591/Del/1982 filed on 2nd August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

## 22 Claims

A drilling head for a drilling device which drilling head comprises a rotating body provided with a duct running there through for supplying, under pressure, air, mud, water or other drilling fluid, said body being provided with at least one rotating cutting element mounted on a shaft fixed to said body so that the axes of rotation of the rotating body and of the cutting element diverge in the drilling direction, said cutting element comprising a disc having at least one annular cutting surface, said body being provided on the side diametrically opposite to said shaft—mounted cutting element with at least one counter-reacting element, said counter-reacting element engaging the wall of the cavity in the ground within which said drilling device is introduced in order to centre said drilling head and to compensate for the radial component of the reaction of the ground to said cutting disc and to strengthen said wall.

Compl. specn. 26 pages.

Drg. 4 sheets

CLASS : 15 D

159062

Int. Cl. : F 16C 43/00, 19/00.

## SHAFT BEARING.

Applicant : JAMES HOWDEN & COMPANY LIMITED, A BRITISH COMPANY OF 195 SCOTLAND STREET, GLASGOW G5 8PJ, SCOTLAND.

Inventors : WILLIAM WALLACE WHITE AND IAN NORMAN MACDONALD.

Application for Patent No. 595/Del/1982 filed on 03 August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 12 Claims

A shaft bearing comprising a fixed part having a bearing surface, a shaft rotatable in the bearing surface, a radially extending disc mounted on the shaft for rotation therewith, an axially extending ring mounted on said disc at a location spaced radially outwardly from the shaft, a lubricant reservoir, means to feed lubricant from the reservoir to said bearing surface, means to lead lubricant from said bearing surface to the vicinity of the lower part of said ring, so that a film of lubricant is formed on the internal cylindrical surface of the ring, which moves at same velocity as the ring, a lubricant scoop mounted within said ring and closely adjacent to the internal cylindrical surface thereof for forming, upon rotation of said shaft, a film of lubricant on the inner surface of said ring, said film being picked up at said velocity by said scoop to produce a pressure head sufficient to pump lubricant from said scoop to said reservoir, and a conduit leading from said scoop to said reservoir, said conduit being fully closed to atmosphere as it extends from the scoop to the reservoir.

Compl. specn. 15 pages.

Drg. 3 sheets.

CLASS : 85 G & 136 E

159063

Int. Cl. : H 05 b 5/00.

"ELECTRIC FURNACE FOR MELTING THERMO-PLASTIC MATERIAL".

Applicant : CORNING GLASS WORKS, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF CORNING STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : RONALD WILLIAM PALMQUIST.

Application for Patent No. 611/Del/1982 filed on 11th August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 19 Claims

An electric furnace for melting thermoplastic material comprising :

a refractory vessel having sidewall portions,

a discharge opening formed at the bottom of said vessel,

a metallic liner positioned within said refractory vessel in close proximity with said sidewall portions but spaced apart therefrom so as to form a relatively narrow annular space between said liner and said sidewall portions,

said refractory vessel having an open upper portion for receiving batch material to be melted, and

electrodes mounted to extend into vessel for contact with batch material delivered to said furnace to melt the same;

the upper edge of said liner being below the fusion line formed by said batch material to be melted and the molten material therebelow.

Compl. specn. 37 pages.

Drg. 3 sheets

CLASS : 116 C

159064

Int. Cl. : B 65 g 15/00, 17/00, 23/00.

"CONVEYOR DEVICE FOR CONVEYING MATERIALS".

Applicant : HANS-PETER LACHMANN, A GERMAN CITIZEN OF DROSSELWEG 29, D-5000 KÖLN 60, WEST GERMANY.

Inventor : HANS-PETER LACHMANN.

Application for Patent No. 659/Del/1982 filed on 31st August, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 10 Claims

Conveyor device for conveying materials comprising a belt equipped with carriers and at least one section for steep or vertical conveyance for the hoisting of the material to be conveyed to a higher level wherein the conveyor belt is releasably connected to at least one traction rope by a connecting means at the steep or vertical section to transmit the tractive force to the conveyor belt, said traction rope being separately driven by a drive unit.

Compl. specn. 9 pages.

Drg. 7 sheets

CLASS : 39 N

159065

Int. Cl. : C 01 b—33/06.

"A PROCESS FOR THE PREPARATION OF MAGNESIUM SILICIDE."

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, OF 20-22, ZAMROODPUR, COMMUNITY CENTRE, KAILASH COLONY EXTENSION, NEW DELHI-110048, A GOVERNMENT OF INDIA UNDERTAKING AND INDIA INSTITUTE OF TECHNOLOGY OF KHARAGPUR, INDIA AN EDUCATIONAL AND RESEARCH ORGANISATION ESTABLISHED BY GOVERNMENT OF INDIA.

Inventors : HIRENDRA NATH ACHARYA, HARI DAS BANERJEE AND NIRMAL CHANDRA ROY.

Application for Patent No. 680/Del/1982 filed on 8th September, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 5 Claims

A process for the preparation of magnesium silicide from rice husk or hulls which comprises in heating rice husk in the presence of air to a temperature below the calcination temperature to obtain white ash and where silica originally contained in the rice husk is still in the amorphous state, purifying said ash for removal of water and acid soluble impurities to obtain purified silica by leaching the ash with mineral acid or acids and washing with de-ionised water reducing said silica in the presence of magnesium to obtain magnesium silicide.

Compl. specn. 8 pages.

Drg. 1 sheet

CLASS : 39 K [III]

159066

Int. Cl. : C 01 b 33/12.

"A PROCESS FOR THE PREPARATION OF SILICA."

Applicant : NATIONAL RESEARCH DEVELOPMENT CORPORATION OF INDIA, OF 20-22, ZAMROODPUR, COMMUNITY CENTRE, KAILASH COLONY EXTENSION NEW DELHI-110048, INDIA AND INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR.

Inventors : HIRENDRA NATH ACHARYA, HARIDAS BANERJEE AND NIRMAL CHANDRA ROY.

Application for Patent No. 682/Del/1982 filed on 8th September 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A process for the preparation of high purity silica which comprises in heating rice husk or hulls to a temperature below the calcination temperature, purifying the ash produced for the removal of water soluble and acid soluble impurities therefrom by leaching the ash with a mineral acid and by treating the ash with deionised water.

Compl. specn. 8 sheets.

Drg. 1 sheet

CLASS : 50 B

159067

Int. Cl. : F 28 f—25/02.

#### A WATER TRANSFER MEMBER FOR AIR COOLERS.

Applicant : RAM NARAIN KHER, AN INDIAN NATIONAL OF E-45, NEW DELHI, SOUTH EXTENSION, PART-I, NEW DELHI-110049, INDIA.

Inventor : RAM NARAIN KHER.

Application for Patent No. 691/Del/1982 filed on 10th September 1982.

Complete specification left on 5th December 1983.

Addition to Patent application No. 586/Del/1982 dated 31st July 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 4 Claims

A transfer member for use in an air cooler for transferring water from the water distribution means to the pads of the air cooler comprising a sheet member for supporting a plurality of strands, said sheet member comprising a first and second arm having longitudinal slots provided at the upper end or bent portion thereof a plurality of means provided at the edges of each of the first and second arms for receiving the strands as described in copending parent Patent application No. 586/Del/1982 characterized in that said means consist of grooves with open ends for receiving said strands.

Provisional specification 5 pages.

Compl. specn. 7 pages.

Drg. 1 sheet.

CLASS : 39 K

159068

Int. Cl. : C01b 17/76.

#### A METHOD FOR THE EXTRACTION OF SULPHUR DIOXIDE.

Applicant : BOLIDEN AKTIEBOLAG, A SWEDISH COMPANY OF STUREGATAN 22, BOX 5508, S-114 85 STOCKHOLM, SWEDEN.

Inventors : STIG ARVID PETERSSON.

Application for Patent No. 733/Del/1982 filed on 30th September 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 6 Claims

A method for the extraction of sulphur dioxide and for the preparation therefrom of sulphur dioxide containing carrier gas adapted to be employed in the manufacture of sulphuric acid in a contact plant, which comprises with-

drawing process gases containing sulphur dioxide which originate from discontinuous processes of the kind such as described herein, separating at least partially sulphur dioxide from the withdrawn process gas to form a liquid phase containing said separated sulphur dioxide, releasing sulphur dioxide from the form liquid phase with the aid of a carrier gas during those process operational periods in which no process gas is generated in said discontinuous processes or passed to the contact plant or the process gas so generated and passed to the contact plant contains unsufficiently high quantities or percentages of sulphur dioxide, maintaining the total amount of sulphur dioxide in said carrier gas at a predetermined percentage, and supplying said sulphur dioxide containing carrier gas to said contact plant for manufacture of sulphuric acid.

Compl. specn. 12 pages.

Drg. 1 sheet

CLASS : 38

159069

Int. Cl. : F 16 g 13/00.

#### ELONGATE MAIN LINK FOR A CHAIN OR CABLE SLING.

Applicant : PARSONS CONTROLS LIMITED, A LIMITED LIABILITY COMPANY INCORPORATED UNDER THE LAWS OF GREAT BRITAIN, OF STOURPORT-ON-SEVERN, STOURPORT, WORCESTERSHIRE DY 13 9AT, ENGLAND.

Inventor : MICHAEL JOHN MILINGTON.

Application for Patent No. 742/Del/1982 filed on 7th October, 1982.

Convention date on 7th October, 1981/8130349/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

An elongate main link for a chain or cable sling having crown portions of substantially semi-circular form and, connecting the crown portions, parallel extending side portions said crown portions each being formed with an inner circumferentially extending flange, an outer circumferentially extending flange and intermediate between the inner flange and the outer flange a radially extending web : and said parallel extending side portions each being formed with an inner flange and an outwardly extending web : the outer flanges of the crown portions being of substantially constant cross-section over central 120° sectors and of progressively decreasing cross-section thickness over 30° sectors adjoining the side portions, the cross-section thickness of the outer flanges decreasing smoothly to merge with the thickness of the outwardly extending webs of the side portions.

Compl. specn. 8 pages.

Drg. 1 sheet

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—

(1)

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## PATENTS SEALED

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## AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

The amendments proposed by Union Carbide Corporation, in respect of Patent No. 155732 as advertised in Part III, Section 2 of the Gazette of India, dated the 6th September, 1986 has been allowed.

(2)

The amendments proposed by Mr. Leonard Richard Kahn, in respect of Patent No. 157383 as advertised in Part III, Section 2 of the Gazette of India, dated the 27th September, 1986 have been allowed.

## REGISTRATION OF ASSIGNMENTS, LICENCES ETC. (PATENTS)

Assignments, Licences or other transactions affecting the interests of the original Patentees have been registered in the following case. The case is followed by the name of the parties claiming interests.

149572—M/s. Otoklin Plants and Equipments Limited.

148988 — Smt. Kamala Kumari Jayswal  
Sri Prabhat Singh Jayswal  
Sri Birendra Singh Jayswal

144267 — Montedison S.P.A.

144267 — Ausimont S.P.A.

136710

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138681

Caterpillar Inc.

## RENEWAL FEES PAID

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## CESSATION OF PATENTS

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## RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 151518 dated the 28th January, 1980 made by Niku Purnachandra on the 28th January, 1986 and notified in the Gazette of India, Part-III, Section 2 dated the 11th October, 1986 has been allowed and the said Patent restored.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 157511. Ratnakar Ganesh Patwardhan, Indian National, 55, Hindu Colony, Dadar, Bombay-400014, Maharashtra, India, "Chair". October 8, 1986.

Class 1. No. 157541. Krishan Avtar Singh Oberai, 15/33, West Patel Nagar, New Delhi-110008, India. Indian. "Gas Candle". October 14, 1986.

Class 1. No. 157542. Krishan Avtar Singh Oberai, 15/33, West Patel Nagar, New Delhi-110008, India. Indian "Lamp". October 14, 1986.

Class 1. No. 157543. Jay Cylinders Limited, S-115, Panchshila Park, New Delhi-110017, India, Indian Company. "Lamp". October 14, 1986.

- Class 1. No. 157544. Jay Cylinders Limited, S-155, Panchshila Park, New Delhi-110017, India. Indian Company. "Gas Room Heater". October 14, 1986.
- Class 3. No. 157463. Deepharma Limited, B-142, Okhla Industrial Area, Phase-1, New Delhi-110020, India. "Bottle". September 19, 1986.
- Class 3. 157512. Eagle Flask Pvt. Ltd., Eagle Estate, Talegaon 410507, Dist. Pune, Maharashtra. "Bottle". October 8, 1986.
- Class 3. No. 157513. Eagle Flask Pvt. Ltd., Eagle Estate, Talegaon 410507, Dist. Pune, Maharashtra. "Vacuum Jug". October 8, 1986.
- Class 3. No. 157516. National Celluloid Products, 1st floor, Vakil Industrial Estate, Walbhat Road, Goregaon (East), Bombay-400063, Maharashtra, India. Indian Partnership Firm. "Dry Fruit Tray". October 8, 1986.
- Class 3. No. 157606. Peico Electronics & Electricals Limited, Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. Indian Company. "Speaker of Stereo Radio Recorder". October 29, 1986.
- Class 3. No. 157607. Peico Electronics & Electricals Limited, Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. Indian Company. "Stereo Radio Recorder". October 29, 1986.
- Class 3. No. 157646. Automatic Instruments Company, C-3/2, Mayapuri, Phase II, New Delhi-110064, India. Indian Partnership Firm. "Stem Type Thermostat". November 6, 1986.
- Class 3. No. 157448. M. S. P. Oil Mills, 6/74, Krishnarajapuram Vth Street, Tuticorin-628002, Tamil Nadu, India. A partnership firm. "Oil Can". September 16, 1986.
- Class 4. No. 157622 & 157628. Peico Electronics and Electricals Limited, Shivsagar Estate, Block 'A', Dr. Annie Besant Road, Worli, Bombay 18-(WB), Maharashtra, India. Indian Company. "Electric Lamp". November 4, 1986.
- Class 5. No. 157564. Noble Soya House Limited. Indian Company, Arera Colony, Bhopal-462016, M.P., India. "Carton". October 22, 1986.

R. A. ACHARYA  
Controller General of Patents Designs  
and Trade Marks